

WHAT IS CLAIMED IS:

- 1508 A17
1. A method for storing and locating a plurality of file system objects on a WORM storage medium, wherein information can be written to, but not erased from, the storage medium, the method comprising:
    - allocating a writeable area on the storage medium;
    - generating a system sector, wherein the system sector includes system information regarding the file system objects on the storage medium;
    - writing the system sector starting at one end of the writeable area; and
    - writing the content of any of the file system objects at the other end of the writeable area.
  2. The method of Claim 1, further comprising:
    - generating an updated system sector whenever there is a change in the file system objects in the writeable area; and
    - writing the updated system sector on the storage medium in a location where the updated system sector will be read before any previously written system sectors.
  3. The method of Claim 2, wherein generating the updated system sector comprises:
    - generating a header for the sector, wherein the header includes the most recent information for accessing at least one or more of the file system objects on the storage medium that are accessible from a host system.
  4. The method of Claim 3, wherein the header further comprises:
    - a sector type parameter that identifies the sector as a system sector.
  5. The method of Claim 3, wherein the header further comprises:
    - an entry count parameter that identifies the number of entries that are contained within the system sector.
  6. The method of Claim 3, wherein the header further comprises:

2 a directory identification parameter that is used to determine when to  
3 terminate the process of reading the system sector(s).

1 7. The method of Claim 3, wherein the header further comprises:  
2 a file identification parameter that is used to determine when to terminate the  
3 process of reading the system sector(s).

1 8. The method of Claim 3, wherein the header includes:  
2 a data block number that indicates the next available writeable location for a  
3 file system object.

1 9. The method of Claim 2, wherein generating the updated system sector  
2 comprises:  
3 generating entries for the sector, wherein the entries include information on  
4 the content for file system objects that are written to the storage  
5 medium.

1 10. The method of Claim 9, wherein the entries include:  
2 a type tag to indicate the type of file system object to which the entry pertains.

1 11. The method of Claim 9, wherein at least one of the entries includes:  
2 at least one data pointer to indicate the location of the data content for the file  
3 system object.

1 12. The method of Claim 9, wherein at least one of the entries includes:  
2 a byte count to indicate the amount of information included in the content for  
3 the file system object.

1 13. The method of Claim 9, wherein at least one of the entries includes:  
2 an identifier corresponding to the file system object, wherein the identifier is  
3 used to access the file system object.

1 14. The method of Claim 9, wherein at least one of the entries includes:  
2 linkage information for accessing portions of the file system object that are  
3 stored in fragments on the storage medium.

- 1
- 2
- 3

1  
2

- 1
- 2
- 3

- 1
- 2
- 3
- 4

2  
3  
4  
5  
6  
7  
8  
9  
0

- 1
- 2
- 3
- 4
- 5
- 6

SUB A37

2 at least one data pointer to indicate the location of the data content for the file  
3 system object.

1 30. The storage medium of Claim 27, wherein each entry includes:  
2 a byte count to indicate the amount of information included in the content for  
3 the file system object.

1 31. The storage medium of Claim 27, wherein at least one of the entries  
2 includes:  
3 an identifier corresponding to the file system object, wherein the identifier is  
4 used to access the file system object.

1 32. The storage medium of Claim 27, wherein at least one of the entries  
2 includes:  
3 linkage information for accessing portions of the file system object that is  
4 stored in fragments on the storage medium.

1 33. The storage medium of Claim 27, wherein at least one of the entries  
2 includes:  
3 information indicating the relationship of the file system object to another file  
4 system object.

1 34. The storage medium of Claim 27, wherein at least one of the entries  
2 includes:  
3 information indicating the name of the file system object.

1 35. The storage medium of Claim 27, wherein at least one of the entries  
2 includes:  
3 information indicating attributes of the file system object.  
4